



P A T E N T

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)	
Thomas N. Turba)	Examiner K. Lu
Serial No. 10/028,146)	Group Art Unit 2167
Filing Date: 12/21/01)	
)	Docket No. 33012/327/101
For: XML ELEMENT TO SOURCE)	<u>DECLARATION UNDER</u>
MAPPING TREE)	<u>37 C.F.R. 1.131</u>

Box AF
Commissioner for Patents
Box 1450
Alexandria, VA 22313

Dear Sir:

CERTIFICATE UNDER 37 C.F.R. 1.8. I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Box AF, Commissioner for Patents, Box 1450, Alexandria, VA 22313 on this	
24	day of February, 2005
By	Carolyn T. Erickson

DECLARATION

The undersigned declares as follows:

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1. I am the sole inventor of the subject U.S. Patent Application, U.S. Serial No. 10/028,146, filed December 21, 2001;
2. My home address is:

Thomas N. Turba
1170 West Burke Avenue
Roseville, Minnesota 565113
3. I am employed by Unisys Corporation, assignee of all right, title and interest of the subject invention;
4. The invention of pending claims 1-25 of the subject U.S. Patent Application was first commercially embodied in a product of Unisys Corporation entitled Cool ICE Revision 3.0;
5. Though Cool ICE Revision 3.0 was not placed on commercial sale until November 15, 2001, most of the components of this commercial product were fully completed and reduced to practice before that date;
6. Exhibit A, hereto attached, is an internal Unisys document produced about April 24, 2001 which shows that the present invention was incorporated into the "XML Mapping Tool" of the Cool ICE Revision 3.0 product in the United States of America and which shows the plan to begin field testing of the completed Cool ICE Revision 3.0 product on July 19, 2001;
7. Exhibit B, hereto attached, is the minutes of a Field Qualification Meeting held August 1, 2001, which shows that as of August 1, 2001, the "XML Mapping Tool" of Cool ICE Revision 3.0 was completely reduced to practice in the United States of America and involved in field testing;

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8. Further declarant sayeth not.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon, I further declare that I understand the content of this declaration.

Date 23 Feb 2005

Thomas N. Turba

Thomas N. Turba



PEOPLE

People who have asked to be included:

Phil Lambrecht (Unisys corporate IT)
 (Cargolux)
 Andy Prior (Nationwide)
 Saeed Ghazvini (Product Support - Western States)
 Integration Assistant project people (Ed Frankel & Heather Gilbert (Mission Viejo),
 and Don Mason (Tredy))
 Steve Tetzloff (EMC Insurance)
 Rolf Lönnberg (S&T Sales & Tech, Sweden, on behalf of Handelsbanken Liv)

People who should be specifically contacted to participate and/or arrange for customers that they work with:

Bob Richards (EMEA sales support, Uxbridge)
 Christian Smyth (ICS)
 (Expanets)
 (Arran Technologies)
 (Computech)?
 Jerry Givan (S&T field ops south)
 George Rutherford (S&T field ops south)
 John Troini (S&T field ops west)
 Roland Lewis (Global Network Services)
 Pentti Siivonen & Jorma Maenanttila (Unisys Finland)
 (Sysforté)
 Jan Jensen (S&T Denmark Competence Center)
 (South Africa)
 Mees Minnee (S&T Netherlands)
 Patrick Baervoets (S&T TCS Belgium Organization)
 Urs Ferrario (Global Network Services, Switzerland/Austria)
 Rudi Chatti (S&T presales, Switzerland)

DATES

Milestone	Original Plan	Resp. Org.
1. Project Initiated (PMP Kickoff, as needed)	000929 actual	Team
2. Requirements Approved	010424 actual	Eng/PM
3. PDP Approved	010424 actual	Eng
4. Functional Spec / High Level Design Approved	010424 actual	Eng
5. FCS Date Committed	010424 actual	Team
6. Stage 1/2 Exit	010424 actual	Team
7. Detailed Design Approved	010516	Eng
8. Code Inspected	010601	Eng
9. Delivery to System Test(DST)	010615-010629	Eng
10. Draft Doc'n Available	010615	PI
11. Begin Field Test (if req'd)	010719	Integration Eng
12. Stage 3 Exit	010726	Team
13. Final Delivery to Sys Test (UCF Cutoff)	010921	Eng

14. System Test Complete	011012	Integration Eng
15. <i>Stage 4 Exit</i>	011018	Team
16. Ship to SPMD	011025	Eng
17. Announcement Date	011109	PM
NL/SS/NPA/SRA		
18. GCA (FCS)	011115	POSM

FEATURE SUMMARY OF ICE 3.0

XML. The ability to send and receive data via the eXtensible Markup Language (XML) is probably the biggest single feature in 3.0.

An entirely new tool--**the XML mapping tool**—is introduced in 3.0. This tool allows you to define the correspondence from XML elements and attributes to variables and tables in the ICE environment. The XML mapping tool can be used in two different modes: (1) starting with a pre-defined XML DTD that may be uploaded into the tool, and (2) starting with ICE tables and variables and then creating XML output that corresponds to them.

Once the XML mapping has been defined, the developer may use the Component Builder (formerly the Data Wizard) to build service that receive XML input and produce XML output.

At runtime, the ICE server object and ASP object are able to accept XML input, parse the XML using the MSXML SAX parser, and then create the appropriate variables and tables according to the specifications created during development by the XML mapping tool.

- **ICE Server Object.** In previous versions of ICE, The ICE object was a specialized COM object designed to be called from Active Server Pages (ASPs) only. In 3.0, a more generalized "ICE server object" was created to allow any COM-compliant source to call ICE.
- **Simple Object Access Protocol (SOAP).** We have verified that it is possible to call the ICE Server Object using this protocol, and we have provided examples of this. SOAP was validated by using the Microsoft SOAP SDK
- **COM Client feature--calling COM components from ICE script.** Five new statements were added to the ICE native script engine that allow you to work with external COM objects:
 - @CCC -- COM client create instance
 - @CCR -- COM client release instance
 - @CCI -- COM client invoke
 - @CCG -- COM client get
 - @CCP -- COM client put
- **E-mail.** While there is no e-mail send and receive feature per se, we have added three features that will enable the implementation of your own e-mail functionality by using readily-available components (such as Microsoft's Collaborative Data Objects (CDO) or third-party products such as Quicksoft's EasyMail. Two of these, COM Client and ICE Server Object, have already been described above. A third feature, the new ExecuteServiceEx method, allows you

to return ICE data to an ASP, in a buffer, instead of sending the data directly through to the browser. This lets you easily pass data retrieved from an ICE service to COM components (such as CDO to send e-mail) from ASP scripting.

- **Mobile commerce/Wireless Application Protocol (WAP) capability.** Changes to the ICE service handler (ICESVCHND) and ICE Admin have been made to support mobile devices using mobile markup languages such as HDML, WML, XHTML, and Palm Web-clipping.
- **Component Builder.** The "Data Wizard" in earlier levels of ICE was always more than a mere wizard, so its name has been changed to "Component Builder" in 3.0 to reflect its true purpose. Besides the XML features built into the Component Builder as described above, several other changes were made to evolve it into a more general purpose component framework tool:
 - A new "Define Inputs" step was created to replace and enhance the old "Create Variables" step. This step allows the developer to define tables and variables that are coming into a service. The developer may select an existing XML Mapping or manually define a set of incoming variables.
 - The new "Script Subroutine" Step provides the ability to call native script subroutines. This allows for maximum flexibility in constructing data services using the component builder. It permits the user to do many things in the data service that are not directly supported by the point-and-click Component Builder environment. For example, this may be used to access the ODBC transactions feature or the COM client feature (described elsewhere in this list). It may also be used to perform transactional (insert, update, delete) actions based on XML input.
 - The new "Save Current Table" step allows the developer to save the "current table" to various types of repository objects: : Named Reports (RPT), Category Service RPT object (CSR), ADO Dataset (ADO), Interim Data (INT). The developer first selects a data source type and then can select an existing data source from the list of available choices or type in the name of a new location.
 - The "Select Sources" step was enhanced in two ways:
 - First, the list of available source types has been expanded to include the two new types created by the "Save Current Table" step. InterimData (INT) and Category/Service (CSR) types are added.
 - Secondly, the list box under "2. Available Choices", will be changes to only show relevant information.
 - The new "XML Output" step is allows the developer to select an existing XML mapping component or create a new one with the XML Mapping Tool. The XML Output step uses the mapping information to build an XML document from the available tables and variables. Each output mapping is customized for the service it is part of. The developer also has the option of including XML headers in the resulting output.
- **Call data services created by the Component Builder from ICE script.** This feature allows services written in ICE script to call a data service that was created by the Component Builder. This permits the writer of ICE script runs to take advantage of the easy-to-use data access provided by the Component Builder.
- **ODBC transactions.** Changes were made in the ICE engine to support the use of ODBC for insert, update, and delete operations:

1. @RAM have been extended to support INSERT, UPDATE, DELETE
 2. RDI now takes advantage of the above @RAM extensions
 3. "auto-commit" may now be turned on and off
 4. More information on the ODBC source is available because the ODBC "get-info" function is now used retrieve additional data from the source
- **Windows security integration.** ICE 3.0 provides the ability to map Windows NT authentication identifiers, which include NT logon ids, logon user's domain, and NT groups that the logon user belongs to, to Cool ICE userids. It works in both Windows NT and Windows 2000, using only the security functionality in Windows 2000 that also exists in Windows NT.
 - **Digital Certificates.** This feature allows Client Certificate information obtained from the ASP Request object to be passed to the user validation service for application use. The entire certificate bit stream is available to the application, and the most commonly used keys and values described in the X.509 standard are automatically extracted by ICE and placed in variables within the ICE environment.
 - **Custom Timeout.** In 3.0 you can create an optional "timeout service" that is called by ICE when a session timeout is detected. The Gateway Configuration tool is used to configure the timeout service.
 - **Initialization Service.** This feature is designed to address the situation in which data passed to the User Validation Service needs to be saved in state management before the session is established. (A session must be established before data can be stored in state management, since the sessionID is used to reference this data.) To solve this problem, you may now create an optional "initialization service" and configure it using the Gateway Configuration tool. If an initialization service has been defined, it will get called after a session is initially established. A new method of passing user-defined data from the validation service to the initialization service has been provided, so that the initialization service can save the data in state management when it is called at the beginning of the session.

**PLEASE SUBMIT WEEKLY STATUS REPORTS BY COB MONDAY****Project Status:**

The first ICE 3.0 Field Qualification Meeting was held on August 1, 2001. A ICE 3.0 field qualification web site has been set up:

<http://www.support.unisys.com/A-S/TXT/CI-FIELDTEST?PLA=CI>

Participants should use this location to access beta media, discussion groups, streaming videos; to enter UCFs and to check their status.

Attendees:

Nigel Duda; Ed Frankel; Doug Hughes; Dick Jordan; Phil Lambrecht; Roland Lewis; Mike Martin; Don Mason; George Rutherford; Andy Prior; Steve Tetzloff; John Thalhuber, Barb Christenson; Scott Costello, Clare Elliott; Paul Germscheid; Gene Gretter; Mike Paranteau; Ron Voight; Kathy Gilde

With a few exceptions, most participants have received and installed ICE 3.0. Approximately 20 hours of test time was logged during the first week.

The following status was reported this past week:

Nigel Duda: Has installed 3.0 and is please with the install process. No major problems. Raised questions on ICE drill, which will be a category in Beta 2. Nigel agreed to post a discussion thread on product information.

Ed Frankel: Installed ICE 3.0 without any problems. Had problem using ODBC to dataaccess. Has submitted a UCF.

Roland Lewis: Terry and I are not too hot on cool-ice and this is a chance to learn a bit more. We will be testing more in the install/deinstall area and coexistence with mapper-nt. Has successfully installed 3.0 without problems.

Jan E. Jensen: Successfully installed 3.0. Has approximately 3 hours. 2 hours for reading the documentation and looking at the demos of the XML Mapping tool. The XML demos was excellent, and I got a good understanding of what the tool are able to do. I am missing documentation and examples of ICE and WAP integration with the WML protocol. All the examples I have seen until now are written in the HDML language. Will a WAP client be supported with the same login-security (UserID, Department and Password and Profiles in ICEAdmin), as a HTML client do today? 1 hour to install ICE beta 1. Made an upgrade installation from CI 2.1, and the installation wizard failed with a MDDLHOST register error. The problem is described in UCF number 19317315.

Phil Lambrecht & Don Mason: Not yet installed ICE 3.0.

George Rutherford: Installed ICE 3.0. Would like to see an icon for PCME.

Andy Prior: Installed ICE 3.0. Looking thru product information. @CCY only works on Win 2000 not NT. Will submit UCF.

Steve Tetzloff: Completed the install on 8/1/01.

John Thalhuber, et al: Installed on Win NT server. Had difficulty installing on clean Win 2000 machine. Deinstall problems. Cool ICE does not appear in Windows S/W list to deinstall.

Field Tests UCF Status:

Current as of 6 August 4:20 pm CDT

Identifier	Response	Headline	Initiator
OPEN UCFS			
19319172	TPCDH	List of Categories and List of Services RCR's not correct	ANDY PF
19318362	GLB	ODBC Database registration fails - MGRZ05 - 112i3950 line 274	JAN E. JI
19317315	DEC	Upgrade installation from CI 2.1 failed to register MDDLHOST	JAN E. JI
19315631	WJP	COOLICE 3.0Q3 - ICEAdmin window looks bad in the GUI screen	NIGEL D
19318508	ACR	CSS - Command ignored	JAN E. JI
19316858	CDE3	COM interfaces don't work in Windows Nt 4.0	ANDY PF
19316645	TPCDH	Cool ICE 3.0Q3 - Unable to Trace State Management Activity	NIGEL D
19315665	BAC	Cool ICE 3.0Q3 ICEPower-Img incorrect	NIGEL D
19311597	WJP	Current ASP Directory Alias truncated when Importing ASP Object	FRANKE
CLOSED UCFS			
19311635	VANYO	Database Registration of ODBC Data Source faults mrim.exe	FRANKE
19319695	BAC	Logo and Ice Icon within PCME	GEORGE
19319652	GLB	Component Builder error	KAY EVA
19319644	GLB	Component bldr problem	KAY EVA
19318486	BAC	Upgrade installation do not convert style-cab in the object table report	JAN E. JI
19318371	WJP	ICEAdmin -> Options -> Output Area Script Conv.... fails with MGIFUN message	JAN E. JI

The next Field Qualification call will be held:

Date: **Wednesday, August 8, 2001**
 Time: 10:00 a.m. Central Daylight Time
 Phone: 1-877-302-3764 Domestic
 215-986-7139 International
 820-7139 Net
 Security Code: **524 6132**

Regards,

Kathleen A. Gilde

Product Release Management